BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka Project Division

Comparitive Statement

Name of Work: Providing Energy Efficient street lights, Real time Street Light Control switches, Control Wires, poles, ABC cable and other accessories in Ward No 03 & 02

Estimate Amount:- Rs. 5,00,00,000.00/-

Name of Contractor:- Sri. MADHUSUDAN A N (SURAKSHA ELECTRICALS)

Approved amount:- 4,88,19,098.43

Tender premium:- 4.99% above

Sl. No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22)	Cum	150.25	214.80	32272.83	71.08	71.08	214.80	15267.73	0.00	214.80	0.00	71.08	15267.73	0.00	17005.11	
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (Mix : 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I.No-2.1.3 of PWD SR 2021-22)	Cum	9.51	6414.31	60993.72	5.81	5.81	6414.31	37241.51	0.00	6414.31	0.00	5.81	37241.51	0.00	23752.21	
3	Supplying, Fitting and Placing un-coated TMT bar reinforcement in sub-structure complete as per Drawing and Technical Specifications (V-III, I.No 13.1, Page No. 99, PWD SR 2021-22)	#####	8.21	106447.02	873472.34	4.05	4.05	106447.02	430756.93	0.00	106447.02	0.00	4.05	430756.93	0.00	442715.40	

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			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)	Cum	92.15	7237.05	666879.27	74.20	74.20	7237.05	536996.01	0.00	7237.05	0.00	74.20	536996.01	0.00	129883.26	
5	Providing and Fixing Pre cast covering Slab 100mm thick made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge	Sqm	154.35	2175.48	335784.78	154.44	154.44	2175.48	335980.58	0.00	2175.48	0.00	154.44	335980.58	195.79	0.00	
6	Providing and fixing pre cast solid cement concrete kerb stones made out of CC M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc ,complete.	Nos	2027.00	532.27	1078920.25	2027.00	2027.00	532.27	1078920.25	0.00	532.27	0.00	2027.00	1078920.25	0.00	0.00	

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		Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
upply of LED Streetlight luminaire with pressure die ast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be	Nos	960.00	8157.74	7831432.05	960.00	960.00	8157.74	7831432.05	0.00	8157.74	0.00	960.00	7831432.05	0.00	0.00	

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	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
8	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be	Nos	80.00	10497.02	839761.40	208.00	208.00	10497.02	2183379.65	0.00	10497.02	0.00	208.00	2183379.65	1343618.25	0.00	

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2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be	Nos	190.00	14102.28	2679432.29	190.00	190.00	14102.28	2679432.29	0.00	14102.28	0.00	190.00	2679432.29	0.00	0.00	

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	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
10	pply of LED floodlight luminaire with pressure ie cast aluminium housing body for optimal hermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast	Nos	130.00	20993.94	2729211.79	154.00	154.00	20993.94	3233066.27	0.00	20993.94	0.00	154.00	3233066.27	503854.48	0.00	

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2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
upply of LED pole mounting type post top antern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/	Nos	50.00	8306.90	415345.02	50.00	50.00	8306.90	415345.02	0.00	8306.90	0.00	50.00	415345.02	0.00	0.00	
Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.7 meters - Top 70mm and bottom 130mm dia	Nos	35.00	12636.73	442285.46	0.00	0.00	12636.73	0.00	0.00	12636.73	0.00	0.00	0.00	0.00	442285.46	

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2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
upplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos	10.00	1889.83	18898.35	0.00	0.00	1889.83	0.00	0.00	1889.83	0.00	0.00	0.00	0.00	18898.35	
Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Double Arm Bracket with 1500mm Standard 40/50MM dia	Each	25.00	2754.92	68872.89	0.00	0.00	2754.92	0.00	0.00	2754.92	0.00	0.00	0.00	0.00	68872.89	
Supplying and Fixing of.....mm dia class A GI pipe bracket upto 2 ms long bent at suitable angle and fixing to this bracket 1x40/2x40 W fluorescent tube street light fitting of all capacities to GI or GI or rail or RCC pole / wall using suitable clA, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	Each	1040.00	947.03	984911.08	1060.00	1060.00	947.03	1003851.67	0.00	947.03	0.00	1060.00	1003851.67	18940.60	0.00	
Fabricating, supplying and erection of ....Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft, 1S 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.4 meters - Top 75mm and bottom 115 mm dia	Km	13.00	7929.98	103089.68	13.00	13.00	7929.98	103089.68	0.00	7929.98	0.00	13.00	103089.68	0.00	0.00	
Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	Km	4.50	192597.26	866687.69	5.77	5.63	192597.26	1083359.61	0.15	192597.26	28504.40	5.77	1111864.01	245176.32	0.00	
Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 25 Sqmm, 3.5 Core, (12 GI Strips - 4 x 0.8 mm)	Km	1.20	190507.96	228609.55	1.64	1.50	190507.96	285761.94	0.14	190507.96	26956.88	1.64	312718.82	84109.27	0.00	

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	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 35 Sqmm, 3.5 Core, (14 GI Strips - 4 x 0.8 mm)	Km	0.50	219084.33	109542.16	0.50	0.50	219084.33	109542.16	0.00	219084.33	0.00	0.50	109542.16	0.00	0.00	
20	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 2.5 to 25 Sqmm	Km	5.70	16965.47	96703.20	7.41	7.13	16965.47	120879.00	0.29	16965.47	4911.50	7.41	125790.50	29087.30	0.00	
21	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 35 to 95 Sqmm	Cum	0.50	24827.16	12413.58	0.50	0.50	24827.16	12413.58	0.00	24827.16	0.00	0.50	12413.58	0.00	0.00	
22	Earth work excavation for cable trench of 0.4 to 0.6 Mtr. Width and Depth upto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr, Supplying and Displaying necessary Danger Boards and Lighting, Using sight Rails and Sign Boards at every 100 Mtr wherever necessary as directed In Ordinary Soil	Cum	1000.00	272.97	272966.28	866.88	866.88	272.97	236629.01	0.00	272.97	0.00	866.88	236629.01	0.00	36337.27	
23	Refilling the cable trenches with selected available earth from trench excavation including watering, consolidation in layers of 15 cm. Thickness including depositing of the surplus earth with a lead of 200 Mtr	Mtrs	1000.00	60.92	60921.20	866.88	866.88	60.92	52811.37	0.00	60.92	0.00	866.88	52811.37	0.00	8109.83	
24	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:2010 4C X 1.5Sq.mm	Mtrs	1000.00	92.36	92364.40	2484.00	1250.00	92.36	115455.50	1234.00	92.36	113977.67	2484.00	229433.17	137068.77	0.00	
25	GI Pipe B - Class as per IS-1239 GI Pipe - 40 mm Dia	Nos	50.00	309.72	15485.78	50.00	50.00	309.72	15485.78	0.00	309.72	0.00	50.00	15485.78	0.00	0.00	
26	Supplying of Epoxy Terminating Kit (Pothead) suitable for 1.1 kV, LTUG Cable Up to 4C x 50 Sqmm	Nos	10.00	331.73	3317.26	10.00	10.00	331.73	3317.26	0.00	331.73	0.00	10.00	3317.26	0.00	0.00	
27	Supplying Heavy Duty Copper Terminal Long Barrel 25 Sqmm Copper Terminal, Apprx Wt 11 Grn	Nos	1500.00	30.46	45690.90	1448.00	1448.00	30.46	44106.95	0.00	30.46	0.00	1448.00	44106.95	0.00	1583.95	
28	Rod type of earthing using 40 mm Dia, 3 Mtr long MS rod as ground rod, in earth pit of 300 mm width and 3300 mm depth and using 50x6 mm flat welded to ground rod as terminal & connected to equipment ground terminal using PVC Al wire as specified	Nos	10.00	2365.41	23654.13	10.00	10.00	2365.41	23654.13	0.00	2365.41	0.00	10.00	23654.13	0.00	0.00	

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	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtr	80.00	288.69	23095.03	80.00	80.00	288.69	23095.03	0.00	288.69	0.00	80.00	23095.03	0.00	0.00	
30	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete16SWG	Nos	350000.00	0.40	141003.10	350000.00	350000.00	0.40	141003.10	0.00	0.40	0.00	350000.00	141003.10	0.00	0.00	
31	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Poles should have protection for Short-Circuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism.complete. FOUR Pole 100 A 25 kA	Nos	10.00	8677.49	86774.88	10.00	10.00	8677.49	86774.88	0.00	8677.49	0.00	10.00	86774.88	0.00	0.00	
32	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	1550.00	198.49	307652.06	1512.00	1512.00	198.49	300109.62	0.00	198.49	0.00	1512.00	300109.62	0.00	7542.44	
33	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.	Each	50.00	174.31	8715.66	50.00	50.00	174.31	8715.66	0.00	174.31	0.00	50.00	8715.66	0.00	0.00	

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2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Supply and erection of Single phase 63 Amps Thyristor based Streetlight control system consisting of micro controller based electronic Timer with RTC, 2X16 LCD with back light, 5 Tactile keys, 106 Thyristor module for load switching mouted on extruded aluminium heat sink, Thyristor driver card for switching Thyristor module, 2 numbers of 63 Amps MCB for over load protection and manual switching, 18 SWG CRACA MS sheet enclouser.	Nos	50.00	31287.26	1564363.07	50.00	50.00	31287.26	1564363.07	0.00	31287.26	0.00	50.00	1564363.07	0.00	0.00	
41 Supply of 3 Mtr Powder Coated Mild Steel Pole powering 40W PCB Light and 20w strip. Dimension of pole 3mm thickness with 80x120mm having Body Colour Graffite Grey, Single side arm bend at 45 deg welded to the pole and arm length 845mm . Strip Light is conduited along with the Pole liner with Blue Light Illumination. Square base Plate sized 250x250 welded at the bottom of the pole with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB access door cutting of 500mm from the bottom of the pole with 12 inches Height. Make Emerald Lighting Solutions Model ALTIES or any equalent	Km	21.00	31234.79	655930.60	21.00	21.00	31234.79	655930.60	0.00	31234.79	0.00	21.00	655930.60	0.00	0.00	
42 Supply of 3 Mtr Powder Coated Mild Steel Pole with 3mm thickness having top Triangle shape with light 36w and arm light 24w Body Colour Grey/Black . 3mtr pole will have blue colour 20w strip on double side of the pole. Square base Plate sized 250x250 welded at the bottom of the pole with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB access door cutting of 500mm from the bottom of the pole with 12 inches Height. Make : Emerald Lighting Solutions Model XENON X-VI or any equalent	Nos	20.00	45933.50	918670.08	30.00	25.00	45933.50	1148337.60	5.00	45933.50	229667.52	30.00	1378005.12	459335.04	0.00	

	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
	Supply of 3 Mtr Powder Coated Mild Steel Pole with 4mm thickness having top Triangle shape, Arm will have 600mm length at one side PCB will be palced with 36w light output , Body Colour Grey/Black . Outer pole and top triangle fixture will have blue colour 20w strip on double side of the pole. Square base Plate sized 250x250 welded at the bottom of the pole with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB access door cutting of 500mm from the bottom of the pole with 12 inches Height. Make : Emerald Lighting solutions Model TRIO or any equalent	Nos	22.00	47770.77	1050956.93	27.00	27.00	47770.77	1289810.77	0.00	47770.77	0.00	27.00	1289810.77	238853.85	0.00	
44	Supply of Pressure die Cast body housing , Half Moon shaped landscape Light Dia 450mm,Height 450mm, and mounting dia OD 60mm.LED Light having 60w output and Body colour Grey/Black. Make : Emerald Lighting solutions Model HORSE-SHOE or any equalent	Nos	100.00	20473.16	2047315.88	100.00	100.00	20473.16	2047315.88	0.00	20473.16	0.00	100.00	2047315.88	0.00	0.00	
45	Fabricating, Supplying and errection of decorative bent type Tuskar Conical Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 9 mtrs. The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom 178 mm,at 9 mtrs height 70 mm 3mm thick and one number of 3 mtr height and 139.7 mm dia perforated pole having colour changing LED Fixture, inside as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 18 mm for poles and a common baseplate of 900x320x20 mm and the pole shall be galvanized with not less than 65 micron etc and finally finished with paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards compleet set includes templat & 6 nos 24 mm x750mm anchor bolts.	Nos	31.00	122445.52	3795811.12	31.00	31.00	122445.52	3795811.12	0.00	122445.52	0.00	31.00	3795811.12	0.00	0.00	

Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
		Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Fabricating, Supplying and errection of decorative Zig Zag bent type Street light pole with hot dip galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications suitable to with stand the wind speed. The total height of the pole 7 mtrs towards road and 5 Mtrs footpath between the pole V shaped MS/any decorativ laser cutting jolly work The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom square pipr of 175x175x4mmx2 Mtrs length and above 2 mtrs a dia of 76.1x3.25mmx5Mtrs and 3 Mtrs, as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 16 mm the pole shall be galvanized with not less than 65 micron etc and finally finished with PU paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards compleet set includes templat 4 nos M20 x750mm anchor bolts.	Nos	68.00	94229.28	6407590.80	68.00	68.00	94229.28	6407590.80	0.00	94229.28	0.00	68.00	6407590.80	0.00	0.00	
47 Fabricating, Supplying and errection of decorative double arm bent type Swirl Street light pole, with 3 sections MS shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 9 mtrs. The dimensions of the pole bottom section 3000mm height165 mm dia,3mm,thick, Middle section 3000mm height 2 nos of 60mm dia,2.5mm thick telescop/swaged joint and in the middle easthatical ovel shape middle round MS plate for hording top section 2 nos 60mm dia.2.5mm thick required lenth to achive total 9 mtrs height & suitabaly bent on either side top width 4000mm as suitable to the Drawing and picture. The base plate size 300mm x 300mm x 12 mm thick and finally finished with paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards compleet set includes templat & 4 nos 16 mm x470mm anchor bolts.	Nos	33.00	71237.32	2350831.59	33.00	33.00	71237.32	2350831.59	0.00	71237.32	0.00	33.00	2350831.59	0.00	0.00	

Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
		Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Supply, instalation testing and commissioning of LED COB inground 10 to 12 watt uplighter for landscape,path lighting bush lighting & etc, made out of die-cast anti-corodal aluminium alloy for optimal thermal dissipation and top plate is made out of 316L marien grade ss,the LEDs should be high quality COB chips osram&bridgelux the beam angle of the fitting shall be narow,medium,wide or asymetric as per the requirment.luminaire shall be complete with driver and capabal of operating at line voltage with out any separate power supply from 100 to 270 V AC,50 hz., power factor>0.9shall be IP 66 and ik06 rated.life time should be at least L70:50000 burning hours at 50 c. Luminaire shall be confirming to BIS and shall be complete with all necessry accessories required for proper working of fixture including weather proof connection cables, water proof connector etc as required	Nos	300.00	9790.33	2937099.49	0.00	0.00	9790.33	0.00	0.00	9790.33	0.00	0.00	0.00	0.00	2937099.49	
Supply, instalation testing and commissioning of LED RGB inground 7 to 9 watt uplighter for landscape,path lighting bush lighting & etc, made out of die-cast anti-corodal aluminium alloy for optimal thermal dissipation the LEDs should be high quality COB chips Osram&bridgelux the beam angle of the fitting shall be narow,medium,wide or asymetric as per the requirment.luminaire shall be complete with driver and capabal of operating at line voltage with out any separate power supply from 100 to 270 V AC,50 hz., power factor>0.9 shall be IP 66 and ik06 rated.life time should be at least L70:50000 burning hours at 50c. Luminaire shall be confirming to BIS and shall be complete with all necessry accessories required for proper working of fixture including weather proof connection cables, water proof connector etc as required.	Nos	400.00	6220.64	2488257.63	0.00	0.00	6220.64	0.00	0.00	6220.64	0.00	0.00	0.00	0.00	2488257.63	
Supplying and laying of copper 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable Armouring strip thickness in average +5% 4 core 6 sqmm copper cable.	Nos	1500.00	358.65	537973.50	0.00	0.00	358.65	0.00	0.00	358.65	0.00	0.00	0.00	0.00	537973.50	

Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Renarks
		Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Supply, installation, testing and commissioning of out door garden speaker fitted with wide response and cover resistant polypropylene speaker components and strong aluminium alloy housing permits various outdoor application omni directional speakers IP 55 terms 40W/100 volt with taping of 40/20/10/5watts as db 160 Hz-16KHz Dimensions DIA 185mm x H765 mm frequency response Preferable including Speaker mounting hardware with mounting templets to be grouted in to the concrete with welded bolts as required to fix the garden speaker Make : Ahuja/Eq	Nos	13.00	25059.25	325770.22	13.00	13.00	25059.25	325770.22	0.00	25059.25	0.00	13.00	325770.22	0.00	0.00	
52 Supply, installation, testing and commissioning of 480 to 600 watt amplifier with large air cooled/forced air cooled heat sink with 3 x line level inputs and 1 x 100 volt input to loop another amp output line ground lift switch to reduce the ground loop hum with 100v/70 volt/ impedence out put Frequency resposne of 50 htz to 15 khtz SN ratio 60 db Power consumption 1200VA AC. Make : Audiotrak/Ahuja	Nos	1.00	92072.76	92072.76	1.00	1.00	92072.76	92072.76	0.00	92072.76	0.00	1.00	92072.76	0.00	0.00	
3 Supply, installation, testing and commissioning of FM radio with Frequency range of 70 Mhz to 108 Mhz PLL based auto tuning sysetm with aux out with out door antenna consumption preferable. Make : Custom	Nos	1.00	2721.41	2721.41	1.00	1.00	2721.41	2721.41	0.00	2721.41	0.00	1.00	2721.41	0.00	0.00	
Supply, installation, testing and commissioning of water proof audio rack made of Powder coated MS lockable with bottem ventilated with removable mesh type cover with power strip and for out door use preferable. Make : Custom	Nos	1.00	80960.54	80960.54	1.00	1.00	80960.54	80960.54	0.00	80960.54	0.00	1.00	80960.54	0.00	0.00	
Supply, installation, testing and commissioning of hand held wired mic with wind shield with single channel mic preamp Frequency response of 55 htz to 16000 htz with 2,5 mvolt out put. Make : Ahuja/Eq	Nos	1.00	10658.66	10658.66	1.00	1.00	10658.66	10658.66	0.00	10658.66	0.00	1.00	10658.66	0.00	0.00	
Supplying and laying of copper 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable Armouring strip thickness in average +5% 4 core 6 sqmm copper cable.	Nos	300.00	358.65	107594.70	300.00	300.00	358.65	107594.70	0.00	358.65	0.00	300.00	107594.70	0.00	0.00	

	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
	Fencating, Supplying and errection of Garden ecker protective enclsoure of size H 35mmx1.30.50mmxB330.50mm fabricated out of MS 1"1/8 L angle and 1" weld mesh with bolts, washers , nuts & etc; and painted with 2 coats of red oxide and then two coats of green/any approved enaml paint.	Nos	114.00	6037.00	688217.56	114.00	114.00	6037.00	688217.56	0.00	6037.00	0.00	114.00	688217.56	0.00	0.00	
	Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5/6" bore size	Mtr	122.00	890.24	108608.74	454.00	152.50	890.24	135760.93	301.50	890.24	268406.03	454.00	404166.96	295558.22	0.00	
					48819098.43				**44345280.21**			**691172.01**		**45036452.21**	**3377670.56**	**7160316.77**	
	EIRL																
E1	Supply and instalations of IP66, 60 watts LED Solar street light with 5 Mtrs long MS pole as detailed specfication Housing ABS Anti-UV Plastic Housing with lence or reflector should not be lessthan 640*250*70mm,Solar Panel 6V 15W High-efficiency polysilicon (Coversion rate 13%) tempered glass laminated,Battery Lithium iron phosphate battery (15Ah / 3.2V)Over Charge Protection Deep Discharge protecton LED Chip 4000-4600lm BEAM Angle 120°Control panel Get dark will turn on, under sunshine will charge energy,5 Mtr Mild Steel Pole of dimension Bottom 2mtr Length 76mm OD and Top 3mtr 60mm OD With 3mm thickness,1mtr 42mm OD Single arm 15 deg welded or bracket to the pole. Base Plate size 220 mm x 220 mm welded at the bottom of the pole Painted with two coats of anticorrosive red oxide and Graffite Grey . suitable for Solar Street Light, includes digging of 1 mtr length and 0.30 mtr dia,1:2:4 bottom concret and 0.3 mtrs above ground level coping complet.	Nos								44.00	38750.00	1705000.00	44.00	1705000.00	1705000.00	0.00	
E2	Supply and erection of 3 Mtr long Aluminium Pole with 60 watt LED Light made out of extruded alluminium 75x150mm with 3 MM thickness, with same dimention extended diamond shape bent at 45 deg Bracket, Diamond of size 400x780 mm Shaped Curvature suspended from the Bracket, Blue/pinck colour Strip Light should be conduted along the Pole, bracket and Diomend Shape on linear side, Grey Colour Powder Coated, strip wattage 20W, pole is mounted on base Plate of 200x200 with required 4 nos foundation Bolts,templates suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height as per the Drawing enclosed. Model name & Make :Diamond Cargo , Emerald Lighting Solutions or any equalent	Nos								5.00	54956.88	274784.38	5.00	274784.38	274784.38	0.00	

Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Renarks
		Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
Supply and erection of 3 Mtr long Aluminium Decorative Pole with 60 watt LED Light made out of single piece extruded alluminium 75x150mm with 3 MM thickness.self "U" type in built grove for strip lighting with same dimension attached Square arm of size 600x600mm curvature at the top with Two nos of Light, Blue/pinck colour Strip Light should be conduted along the Pole and Square light on liner side, Grey Colour Powder Coated, strip wattage 20W, pole is mounted on base Plate of 200x200 with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height.as per the Drawing enclosed . Model name & Make :Square super , Emerald Lighting Solutions or any equalent	Nos								5.00	42469.13	212345.67	5.00	212345.67	212345.67	0.00	
Sub Total				**48819098.43**				**44345280.21**			**2883302.06**		**47228582.27**	**5569800.61**	**7160316.77**	
Miscellaneous & Rounding off													**1590516.16**	**1590516.16**		
Total				**48819098.43**									**48819098.43**	**7160316.77**	**7160316.77**	

1	SANCTIONED ESTIMATE COST	50000000.00
2	SANCTIONED TENDER COST	48819098.43
3	WORK SLIP AMOUNT	3377670.56
4	% OF WORK SLIP COMP TO SANCTIONED TENDER COST	6.92
5	EIRL AMOUNT	2192130.05
6	% OF EIRL COMP TO SANCTIONED TENDER COST	4.49
7	EXCESS AMT TO AGREEMENT COST	0.00
8	% OF EXCESS AMT COMP TO SANCTIONED TENDER COST	0.00

Contractor

Assistant Engineer

Asst. Executive Engineer (Ele)
Assistant Executive Engineer (Ele)
BBMP, Bangalore

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ